

Figure 1

$$\frac{Mr}{x10^{-3}}$$
 $\frac{1}{200}$ $\frac{2}{3}$ $\frac{4}{3}$ $\frac{1}{300}$ $\frac{2}{300}$ $\frac{1}{300}$ $\frac{$

Figure 2

ONC0 -25	STAT	i ni	sic	GNAL L	PEP'	ride									
M ATG	G GGT	V GTA	L CTG	L CTC	T ACA	Q CAG	R AGG	ACG ≺	CTG	CTC	S AGT	L CTG	GTC	CTT	45
-10 A GCA	T.	L CTG	F TTT	P CCA	S AGC	M ATG	A GCG	S	-1 M ATG	A	M ATG	H CAC	V GTG	A GCC	90
Q CAG	P CCT	a GCT	V GTG	+10 V GTA	T	A GCC	S AGC	S AGC	R CGA	G GGC	I ATC	A GCC	s	+20 F TTT	135
V GTG	C TGT	E GAG	Y TAT	A GCA	s TCT	P CCA	G GGC	v	+30 A GCC	T ACT	E GAG	V GTC	R CGG	V GTG	180
T ACA	V GTG	L CTT	Ð	+40 Q CAG	A GCT	D GAC	S AGC	Q CAG	V GTG	T ACT	E GAA	V GTC	С	+50 A GCG	225
A GCA	T ACC	Y TAC	M ATG	M ATG	G GGG	N AAT	E GAG	т.	+60 T ACC	F TTC	L CTA	D GAT	D GAT	S TCC	270
I ATC	C TGC	T ACG	c	+70 T ACC	S TCC	S AGT	G GGA	N AAT	Q CAA	V GTG	N AAC	L CTC	T	+80 I ATC	315
Q CAA	G GGA	L CTG	R AGG	A GCC	M ATG	D GAC	T ACG	G	+90 L CTC	Y TAC	I ATC	C TGC	K AAG	V GTG	360
				+100										ATION 110 G	SIT
E GAG	L CTC	M ATG	Y TAC	PCCA	P CCG	P CCA	Y TAC	Y TAC	L CTG	G GGC	I ATA	G GGC	AAC AAC	G GGA	405
T	Q CAG	I ATT	Y TAT	V GTA	I ATT	D GAT	P CCA	E Gaa	+120 P CCG	C TGC	P CCA	D GAT	S TCT	D GAC	450
F TTC	L CTC	L CTC	W TGG	I ATC	L CTT	A GCA	A GCA	V GTT	+130 S AGT	S TCG	G GGG	L TTG		F TTT	495
Y TAT	S AGC	F TTT	L	+140 L CTC	T ACA	A GCT	V GTT	S TCT	L TTG	S AGC	K AAA	M ATG	L	150 K AAG	540
K Aaa	R AGA	S AGC	P CCT	L CTT	T ACA	T ACA	G GGG	٧	+160 Y TAT	V GȚG	K AAA	M ATG	P CCC	P CCA	585
T ACA	E GAG	P CCA	E	+170 C TGT	E GAA	K AAG	Q CAA	F TTT	Q CAG	P CCT	Y TAT	F TTT	I		630
I	+187 N AAT														636

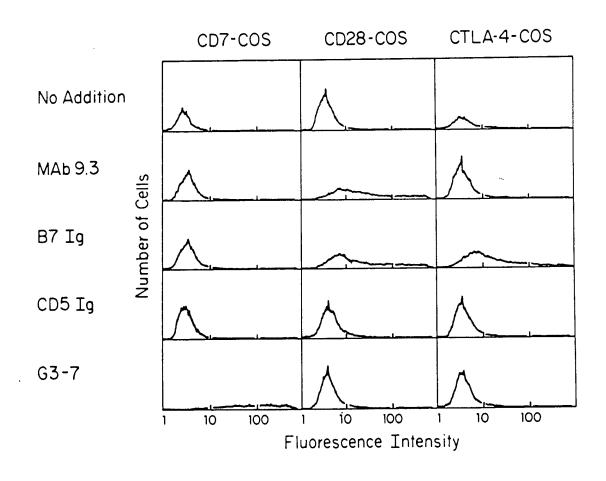


Figure 4

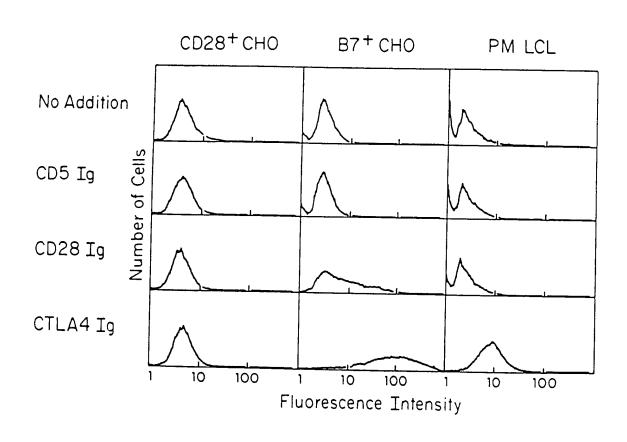


Figure 5

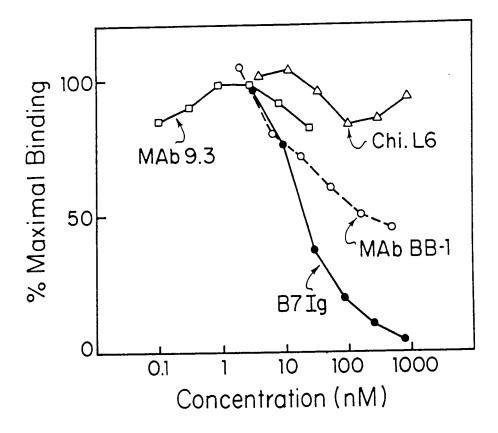


Figure 6

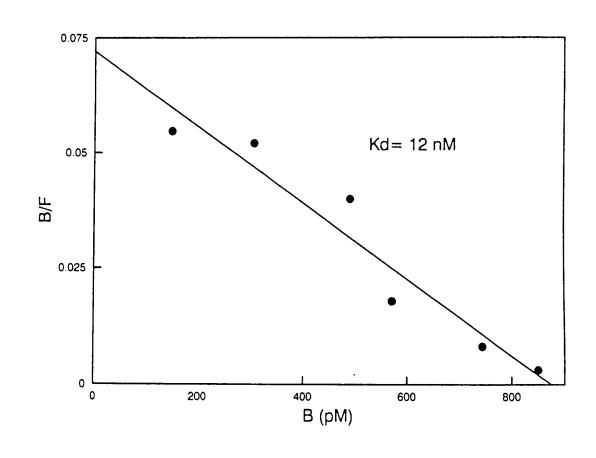


Figure 7

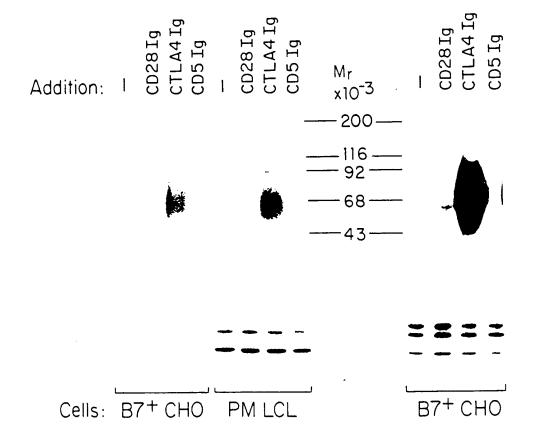


Figure 8

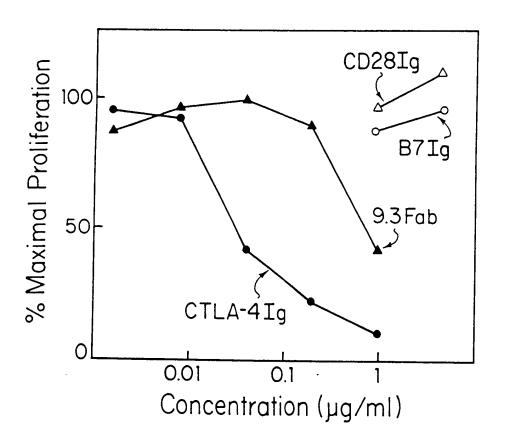


Figure 9

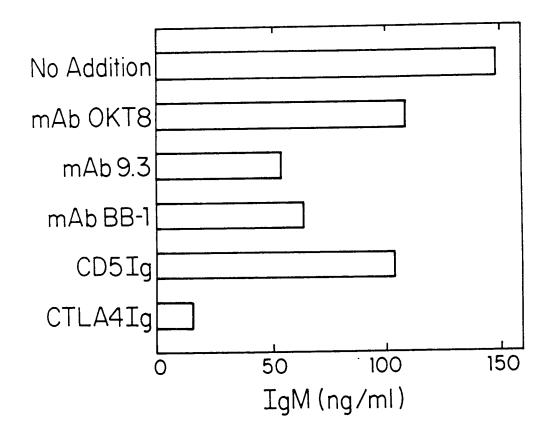


Figure 10

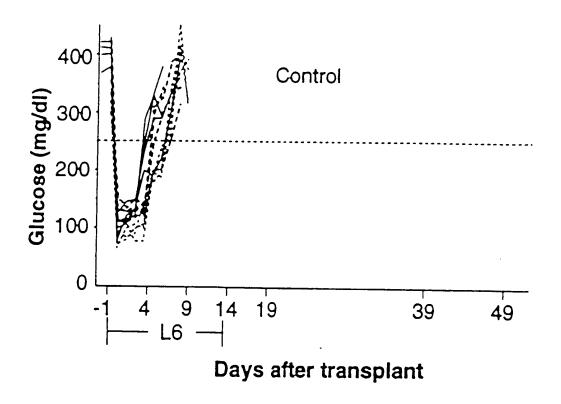


Figure 11A

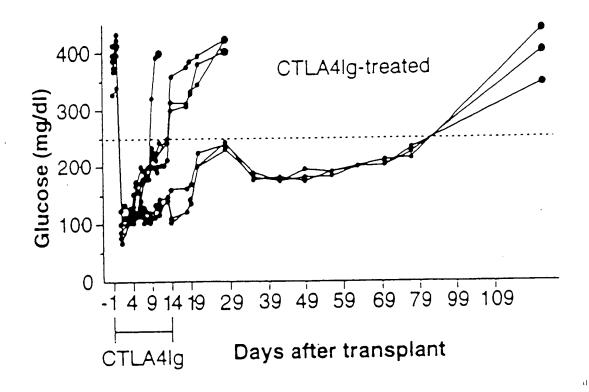


Figure 11B

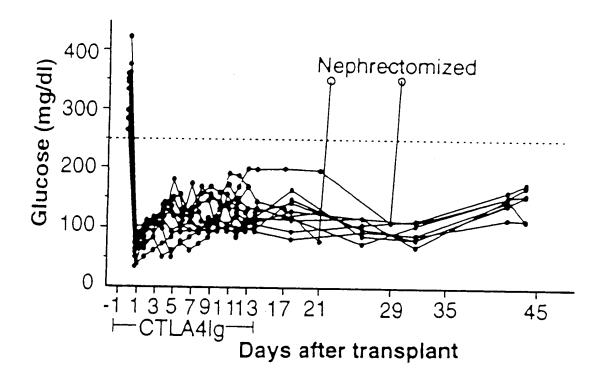


Figure 11C

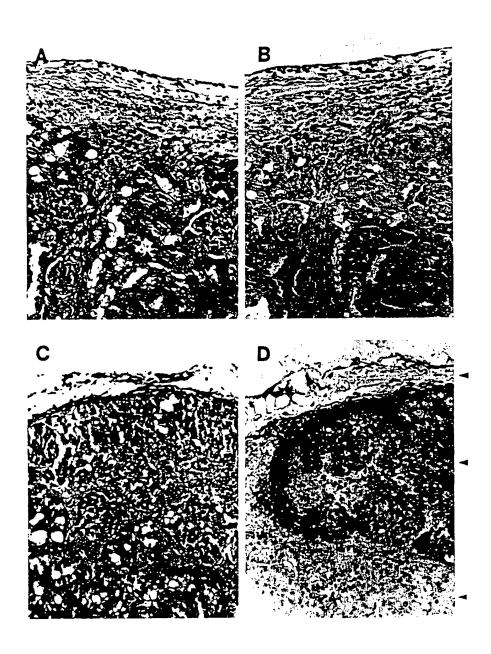


Figure 12

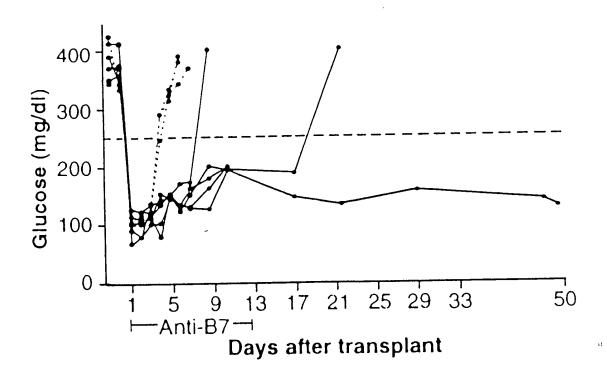


Figure 13

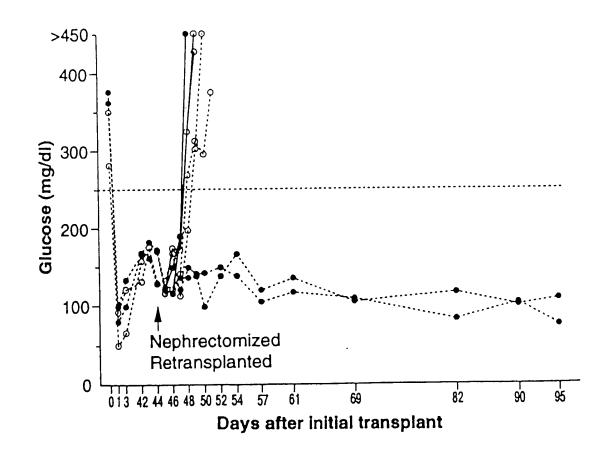


Figure 14

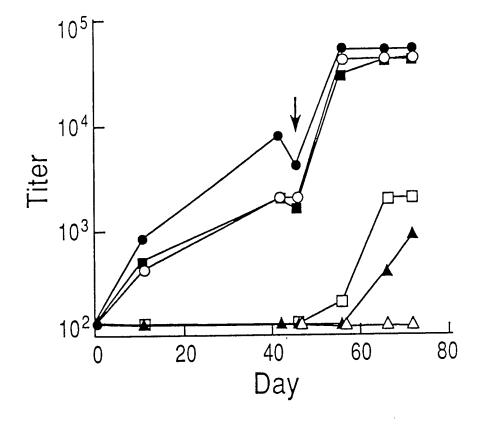


Figure 15

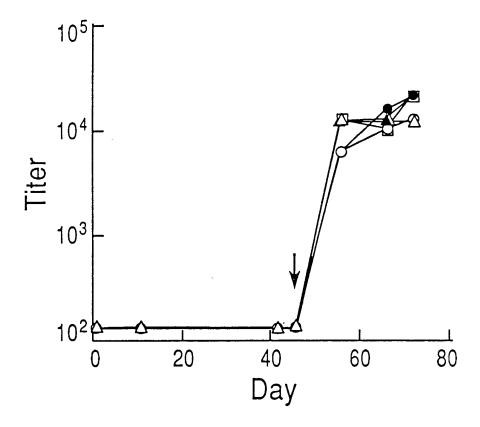


Figure 16

FIGURE 17

CD28/CTLA-4 family

201 Hctla4 Muctla4 Mcd28 Rcd28 Rcd28 Chcd28	Hella4 Muella4 Med28 Red28 Hed28 Ched28	Hella4 Mucila4 Med28 Red28 Red28 Hed28	Hetla4 Muetla4 Mcd28 Red28 Red28 Hed28	Hella4 Muella4 Med28 Red28 Red28 Hed28 Ched28
A4 KRSPLTTGVVVKMPDTEBECEKQFQPVFIPIN	transmembrane domain transmembrane domain	CDR3-like CDR3-like S	CDR2-IIke CDR2-IIKe	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	υυυυυυυ υυυυυυυυυυυυυυυυυυυυυυυυυυυυυ	ननननन ह	Z X Z Z ≺ D 100	X O X & & & & & & & & & & & & & & & & &

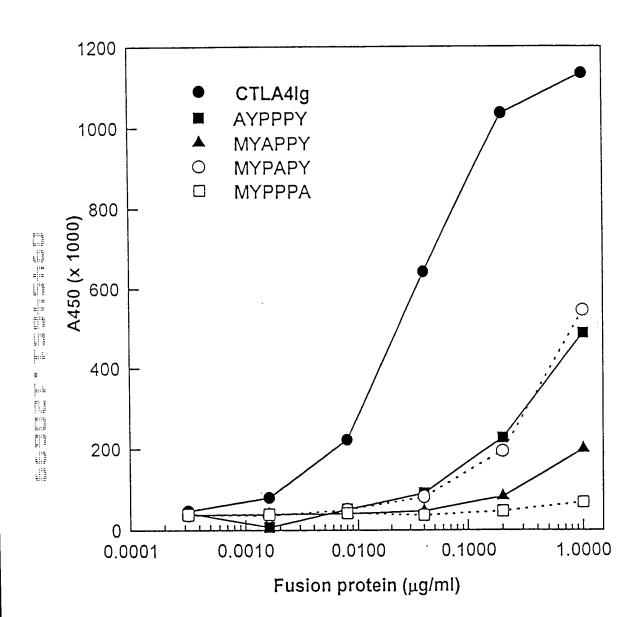
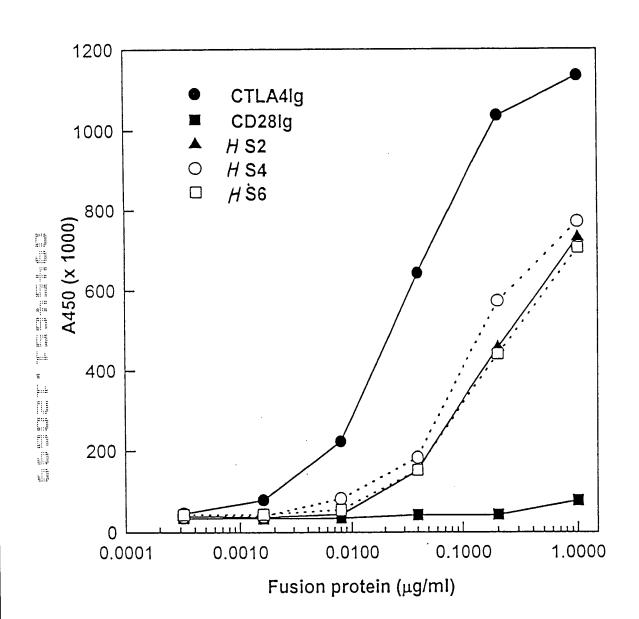


FIGURE 19

% B7
Binding Activity

		CKVELMYPPPY	
CTLA4lg	C		100
CD28lg	C	C C 	<0.1
<i>H</i> S1	C	C C	<0.1
HS2	С	C C	27
HS3	C ;	C C	<0.1
HS4	С	C C	16
H S5	С	C C	<0.1
# S6	С	C C	20
H S4-34	C	C C	5
11 34-34		с с	
H S4-43	C		2
<i>H</i> S7	С	C C	44
H S8	С	C C	56
H S9	С	с с 	5



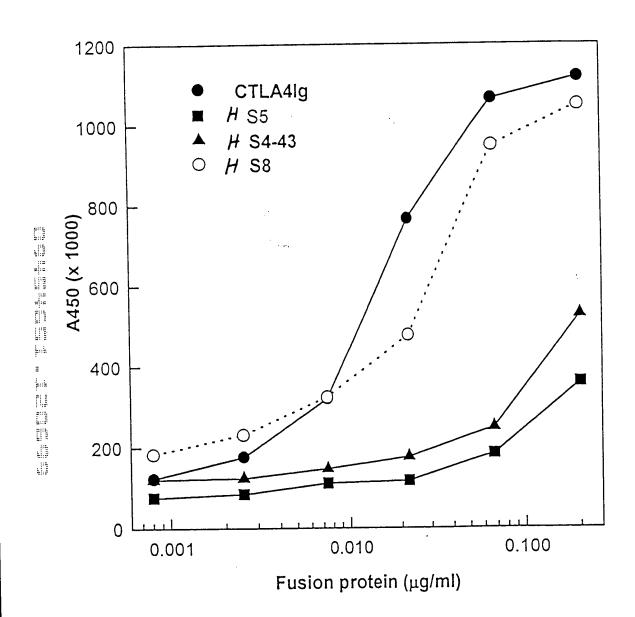


FIGURE 21

